Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Currently Amended) A simulation apparatus comprising:

an output data setting section for setting data, which is output to a control target during execution of simulation;

a data output section for supplying the control target with output data created on the basis of the data when the data is set through the output data setting section;

a storage section; ~~and~~

an event data storage section for storing into the storage section as event data,

a time when a setting operation is carried out;

a value of the data at the time; and

information about the data, only when the setting operation of the data through the output data setting section is ~~detected.~~detected by a microcomputer; and

an event playback section for,

reading the event data stored in the storage section;

supplying the control target with output data created on the basis of analysis of the event data; and

playing back the setting operation indicated by the event data,

wherein the event playback section starts playing back the setting operation automatically when predetermined data is detected.

2-4.   (Canceled)

5.   (Currently Amended) The A simulation apparatus according to claim 2, further comprising:

an output data setting section for setting data, which is output to a control target during execution of simulation;

a data output section for supplying the control target with output data created on the basis of the data when the data is set through the output data setting section;

a storage section;

an event data storage section for storing into the storage section as event data,

a time when a setting operation is carried out;

a value of the data at the time; and

information about the data, only when the setting operation of the data through the output data setting section is detected by a microcomputer;

an event playback section for,

reading the event data stored in the storage section;

supplying the control target with output data created on the basis of analysis of the event data; and

playing back the setting operation indicated by the event data; and

a waiting time setting section for setting a waiting time till starting playing back the setting operation,

wherein the event playback section starts the playback when the waiting time set by the waiting time setting section has passed.

6.   (Currently Amended) The A simulation apparatus according to claim 2, further comprising:

an output data setting section for setting data, which is output to a control target during execution of simulation;

a data output section for supplying the control target with output data created on the basis of the data when the data is set through the output data setting section;

a storage section;

an event data storage section for storing into the storage section as event data,

a time when a setting operation is carried out;

a value of the data at the time; and

information about the data, only when the setting operation of the data through the output data setting section is detected by a microcomputer;

an event playback section for,

reading the event data stored in the storage section;

supplying the control target with output data created on the basis of analysis of the event data; and

playing back the setting operation indicated by the event data; and

a playback number setting section for setting a number of repetition times, wherein the event playback section plays back the setting operation repeatedly the number of repetition times set by the playback number setting section.

7.   (Original) The simulation apparatus according to claim 1, further comprising:

an event data editing section for editing the event data stored in the storage section.

8.   (Currently Amended) A simulation apparatus ~~according to claim 7,~~ comprising:

an output data setting section for setting data, which is output to a control target during execution of simulation;

a data output section for supplying the control target with output data created on the basis of the data when the data is set through the output data setting section;

a storage section;

an event data storage section for storing into the storage section as event data,

a time when a setting operation is carried out;

a value of the data at the time; and

information about the data, only when the setting operation of the data through the output data setting section is detected by a microcomputer; and

an event data editing section for editing the event data stored in the storage section, wherein:

the event data editing section includes a signal waveform editing section for editing the read event data into a predetermined signal waveform; and

the signal waveform editing section includes a signal waveform registration section for registering the event data edited through the signal waveform editing section as signal waveform data.

9.   (Canceled)

10.   (Previously Presented) The simulation apparatus according to claim 7, wherein:

the event data editing section includes a text data editing section for editing the read event data into predetermined data; and

the event playback section plays back the setting operation indicated by the event data edited through the text data editing section.

11.   (Currently Amended) An operation information storage method for storing information of data subjected to a setting operation through a data setting section for setting data, which is output to a control target during execution of ~~simulation,~~ simulation when the data is set through the data setting section, the method comprising:

storing,

a time when the setting operation is carried out;

a value of the data at the time; and

information about the data, as event data only when the setting operation of the data through the data setting section is ~~detected.~~ detected by a microcomputer;

reading the stored event data;

supplying the control target with output data created on the basis of analysis of the event data; and

playing back the setting operation indicated by the event data,

wherein the playing back the setting operation is started automatically when a predetermined data is detected.

12-13. (Canceled)